Samuel Gelman

DATA SCIENTIST

Details

Tel Aviv
Israel
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Links

Portfolio:
sammygelman@github.io

Github:
github.com/SammyGelman/

Linkedin:
linkedin.com/in/sammygelman/

Skills

- Python
- Machine Learning
- Git
- Keras/Tensorflow
- HTML & CSS
- C++

Hobbies

- Band Member (Singer)
- Qigong
- Haiku
- Volley Ball

Languages

- English: Native
- Hebrew: Fluent

Profile

Trained as a specialist in Statistical Physics, I have developed expertise in algorithm development and deep neural networks using Python and Tensorflow/Keras libraries, making me a strong fit for consulting groups and R&D roles in data-driven industries.

Employment History

Research Fellow, Cohen Group, Tel Aviv

SEPTEMBER 2018 - PRESENT

- Used a generative model, Pixel-CNN, to predict behavioral trends in complex systems (Ising Model)
- Trained supervised learning deep networks on sample images
- Created data manipulation and piping infrastructure
- Flexible using Docker containers to support CUDA images for optimized GPU performance while training

Chemist at Israeli Defence Force, Tel HaShomer

August 2016 – February 2018

Matmon - Materials and Chemistry Branch

- Tested material and chemical samples - operating equipment: TGA, DSC, Lumisizer, GC-MS and HPLC.

Algorithm Developer at Meshek76, Shtula

June 2022 – September 2022

- Created a method of testing and implementation of edge detection algorithm from Pythons OpenCV library.
- Iterated through model database structures working one-on-one with the CTO.

Education

Tel Aviv University, Master of Science

September 2018 – Present

- Machine Learning, Data Science, Probability, Statistical Physics, Stochastic Processes, Computational Chemistry

Thesis and Prospective Publication

- A generative model called PixelCNN was used to create a tractable distribution modeled after the Ising model in and out of equilibrium, which proved to outperform existing methods both in accuracy and scaling.

Binghamton University, Bachelor of Chemistry

September 2012 – June 2014

Graduated with Honors: 3.75/4.00 GPA

- Chemistry, Biology, Calculus I & II, Physics, Organic Chemistry, Analytical Chemistry, Drug Development and Design